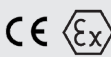
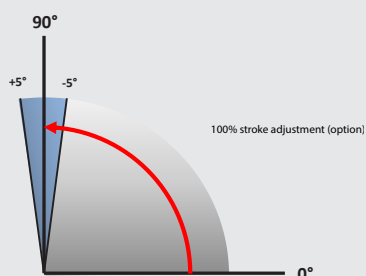


Description	Pneumatic double-piston rotary actuator in rack & pinion design with self-centering pistons; double- and single-acting execution
Materials	Stainless steel AISI 304 or AISI 316
ATEX marking	 II 2 G Ex h IIC T6...T3 Gb II 2 D Ex h IIIC 170°C Db
Temperature range	Standard: -20°C bis +80°C Low temperature version: -40°C bis +80°C High temperature version: -10°C bis +150°C
Control pressure	2 to 8 bar
Pressure media	dry, filtered air or inert gases in respect of remaining oil-, dust and water-content according to DIN ISO 8573-1 / class 4, maximum particle diameter 30µm, dew point minimum 10°C below ambient temperature
Standards	Interface actuator/feedback-unit: VDI/VDE 3845 resp. NAMUR Interface actuator/control media supply: VDI/VDE 3845 resp. NAMUR Interface actuator/valve: ISO 5211 and DIN 3337
Nominal rotation angle	90° Adjustable in switch position +/-5°, (optional 100% stroke adjustment)



Typecode

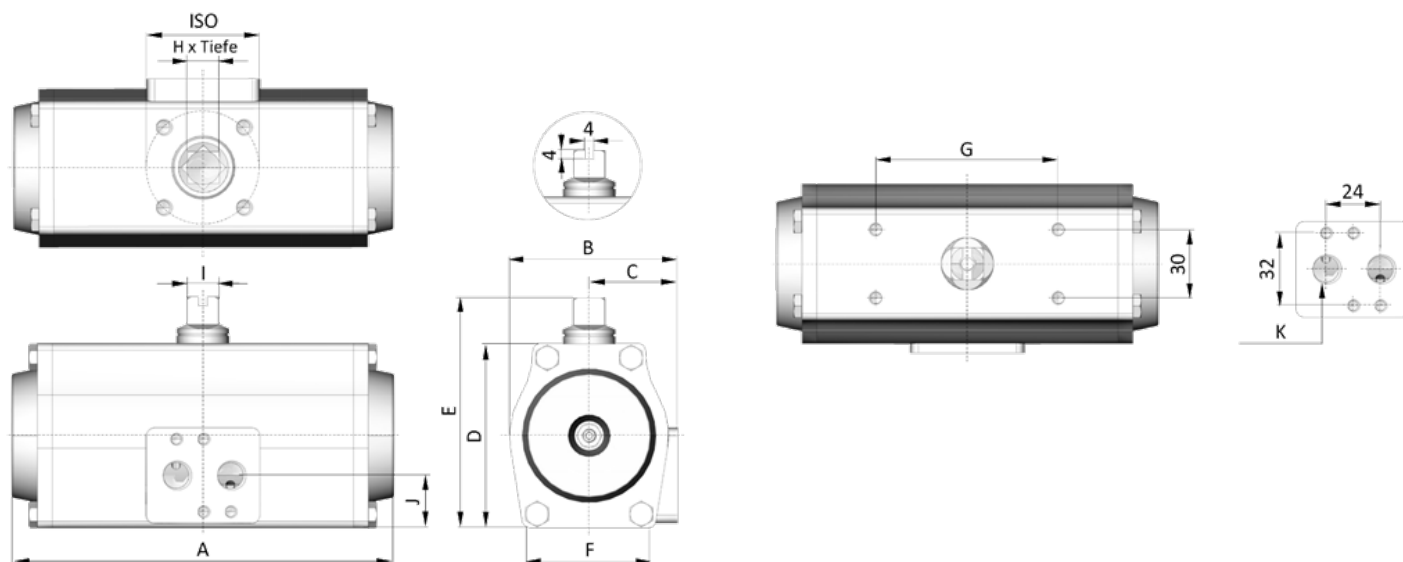
Type	PT	E	-	4A	-	160	/	090	.	12	.	F10/F12	-	V	27	-	F
Function																	
D: double-acting E: single-acting																	
Stainless steel Type																	
2A: AISI 304 4A: AISI 316																	
Size																	
Rotation angle																	
Rotation angle in degree																	
Spring set																	
ISO valve interface																	
Stem connection																	
V: Square acc. to ISO 5211 and DIN 3337																	
Stem connection dimensions																	
Dimension in mm																	
Mounting direction																	
E: transversal to pipe, rotation sense CW F: parallel to pipe, rotation sense CW G: transversal to pipe, rotation sense CCW H: parallel to pipe, rotation sense CCW																	

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Dimensions



A	B	C	D	E	F	G	ISO	H	I	J	K
420	173	86	197	227	127	130	F10 + F12	27x31	22	39	G1/4"

Weight, volume

Weight (kg)	double-acting	35,8
	single-acting	37,6

Volume (l)	double-acting	8,7
	single-acting	3,7

Torques double-acting

Torque in Nm at control pressure in bar (g)												
2	2,5	3	3,5	4	4,5	5	5,5	6	6,5	7	7,5	8
267	334	401	468	535	601	668	735	802	869	935	1002	1069

Torques single-acting

Torque in Nm at control pressure in bar (g)																				
Spring set	Torque spring stroke in Nm		3		3,5		4		4,5		5		5,5		6		7		8	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
5	208,3	139,7	254,0	181,8																
6	250,0	168,0	224,6	137,9	291,6	204,8														
7	292,0	196,0	195,2	94,0	262,2	161,0	329,2	228,0												
8	333,0	223,0	165,8	50,2	232,8	117,2	299,8	184,2	366,3	250,7	432,8	317,2								
9	375,0	251,0			203,9	73,8	270,4	140,3	336,9	206,8	403,4	273,3	470,4	340,3	537,4	407,3				
10	417,0	279,0					241,0	96,4	307,5	163,0	374,0	229,5	441,0	296,5	508,0	363,5	641,0	496,5	775,0	630,5
11	458,0	307,0							277,6	118,6	344,6	185,6	411,6	252,6	478,6	319,6	611,6	452,6	745,6	586,6
12	500,0	335,0									315,2	141,7	382,2	208,7	449,2	275,7	582,2	408,7	716,2	542,7